

Application No.: 10/681,471

Docket No.: JCLA11529

In The Claims:

1. (currently amended) A ground shield structure, suitable for use in an electronic circuit structure, the ground shield structure at least comprising:
a plurality of multi-edge ground cells, periodically, compactly, and complementarily distributed on a ground surface, wherein a slot exists between the two adjacent ground cells to reduce an eddy current induced from the electronic circuit structure.
2. (original) The ground shield structure of claim 1, further comprising at least an interconnection member connecting two of the adjacent ground cells.
3. (original) The ground shield structure of claim 1, wherein the ground cells have an identical cross-sectional profile.
4. (original) The ground shield structure of claim 1, wherein the ground cells have different shape of cross-sectional profiles.
5. (original) The ground shield structure of claim 1, wherein the ground surface includes a planar surface.

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6. (original) The ground shield structure of claim 1, wherein the ground surface includes a curved surface.

7. (previously presented) A ground shield structure, suitable for use in an electronic circuit structure, the ground shield structure at least comprising:

a ground surface, comprising a plurality of slots in a multi-edge shape, the slots are distributed in the ground surface by a periodic, compact and complementary arrangement.

8. (original) The ground shield structure of claim 7, wherein the slots have an identical cross-sectional profile.

9. (original) The ground shield structure of claim 7, wherein the slots have different cross-sectional profiles.

10. (original) The ground shield structure of claim 7, wherein the ground surface includes a planar surface.

11. (original) The ground shield structure of claim 7, wherein the ground surface includes a curved surface.

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12. (currently amended) A ground shield structure, suitable for use in an electronic circuit structure, the ground shield structure at least comprising:

a ground surface, comprising a plurality of multi-edge ground cells and at least an interconnection member connecting two of the multi-edge ground cells, wherein the multi-edge ground cells are distributed on the ground surface by a periodic, compact and complementary arrangement, such that the ground shield structure reduces an eddy current induced by the electronic circuit structure.

13. (previously presented) The ground shield structure of claim 12, wherein the multi-edge ground cells are portions of the ground surface.

Claim 14. (canceled)

15. (previously presented) The ground shield structure of claim 12, wherein the multi-edge ground cells are slots of the ground surface.

16. (previously presented) The ground shield structure of claim 12, wherein the multi-edge ground cells have an identical cross-sectional profile.

17. (previously presented) The ground shield structure of claim 12, wherein the multi-edge ground cells have different cross-sectional profiles.

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18. (original) The ground shield structure of claim 12, wherein the ground surface includes a planar surface.

19. (original) The ground shield structure of claim 12, wherein the ground surface includes a curved surface.

20. (previously presented) The ground shield structure of claim 1, wherein the ground cells includes a shape being “+” - like, dumbbell-like, beehive-like, or mix of “+” – like and rectangular.

21. (previously presented) The ground shield structure of claim 7, wherein the ground cells includes a shape being “+” - like, dumbbell-like, beehive-like.

22. (previously presented) The ground shield structure of claim 12, wherein the ground cells includes a shape being “+” - like, dumbbell-like, beehive-like, or mix of “+” – like and rectangular.

23. (new) A ground shield structure, suitable for use in an electronic circuit structure which comprises at least one signal transmission device, the ground shield structure at least comprising:

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a ground surface, comprising a plurality of multi-edge ground cells distributed on the ground surface by a periodic, compact and complementary arrangement to reduce an eddy current induced from the signal transmission device.

24. (new) The ground shield structure of claim 23, wherein the ground cells have an identical cross-sectional profile.

25. (new) The ground shield structure of claim 23, wherein the ground cells have different shape of cross-sectional profiles.

26. (new) The ground shield structure of claim 23, wherein the ground surface includes a planar surface.

27. (new) The ground shield structure of claim 23, wherein the ground surface includes a curved surface.

28. (new) The ground shield structure of claim 23, wherein the ground cells includes a shape being "+" like, dumbbell-like, beehive-like.